

HUGE NEWSFLASH

Hydrogen Utilization & Green Energy

November 2019

From Granite City to a global hub for hydrogen

Energy Voice had a piece, by Jean Morrison, chairwoman of Aberdeen Renewable Energy Group looking at the inaugural Aberdeen Hydrogen Festival.

The article outlines the success of the event attracting over 700 delegates from international delegations across Europe and the US as well as showcasing some world's first technology.

Outlining the emerging liquid ammonia vector for ship scale propulsion and grid scale storage the article also noted the cross-sector learning identified at the conference.

Aberdeen has long been a centre for the oil and gas sector and is looking to hydrogen as way to future proof the city in the transition to a net zero economy.

This was recognised in the article with the festival demonstrating "market readiness of hydrogen and gave Aberdeen an opportunity to strengthen its position as a pioneering city for hydrogen development and technology."

More Info can be found at:

<https://www.energyvoice.com/otherenergy/211336/from-granite-city-to-a-global-hub-for-hydrogen/>

The EU can use hydrogen to stop climate change and create jobs

The *Financial Times* looks at the role the EU can play in the transition to a hydrogen economy by this piece from Marco Alvera the Chief Executive of Snam.

The article begins with outlining the global climate change challenge and achieving the aims of the Paris Accord must come from the leadership of Europe. It identifies that in the transition to renewable energy the EU lead with the 20% renewable energy target by 2020 which ultimately lead to cheaper solar and wind on a global scale.

Alvera outlines the role in which hydrogen can play in the next stage of transition including the point that hydrogen costs have already come down.

He argues that "European countries could band together to create a continental hydrogen champion, an "Airbus of hydrogen", pooling skills and resources in a mega-factory large".

The HUGE Project is funded by the European Union's Northern Periphery and Arctic Programme.

More Info can be found at:

<https://www.ft.com/content/f5ca88c4-106e-11ea-a7e6-62bf4f9e548a>

Researchers are dosing in on a way to convert waste heat from industry into hydrogen fuel.

In their 'Future Tech' section Silicon Republic cover the release of a paper in the *Journal Energies* which outlines converting waste heat from industry into hydrogen fuel.

After setting the scene by outlining the challenge "producing all of today's hydrogen fuel just using electricity would require 3,600 terawatt hours (TWh), more than is generated annually by the EU" they report on researchers from the Norwegian University of Science and Technology.

The researchers have discovered a method of generating large quantities of hydrogen from waste heat, of which they estimate Norway generates 20TWh alone. The method described is "a technique called reverse electro dialysis, which relies on salt solutions and two varieties of ion exchange membranes".

Kjersti Wergeland Krakhella, first author of the study suggests that they've "found a way of using heat that otherwise isn't worth much" as well as recognising the benefits that "It's low-grade, low-temperature heat but it can be used to make hydrogen".

More info can be found at:

<https://www.siliconrepublic.com/machines/hydrogen-fuel-waste-heat>